

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555831

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-87-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-50-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

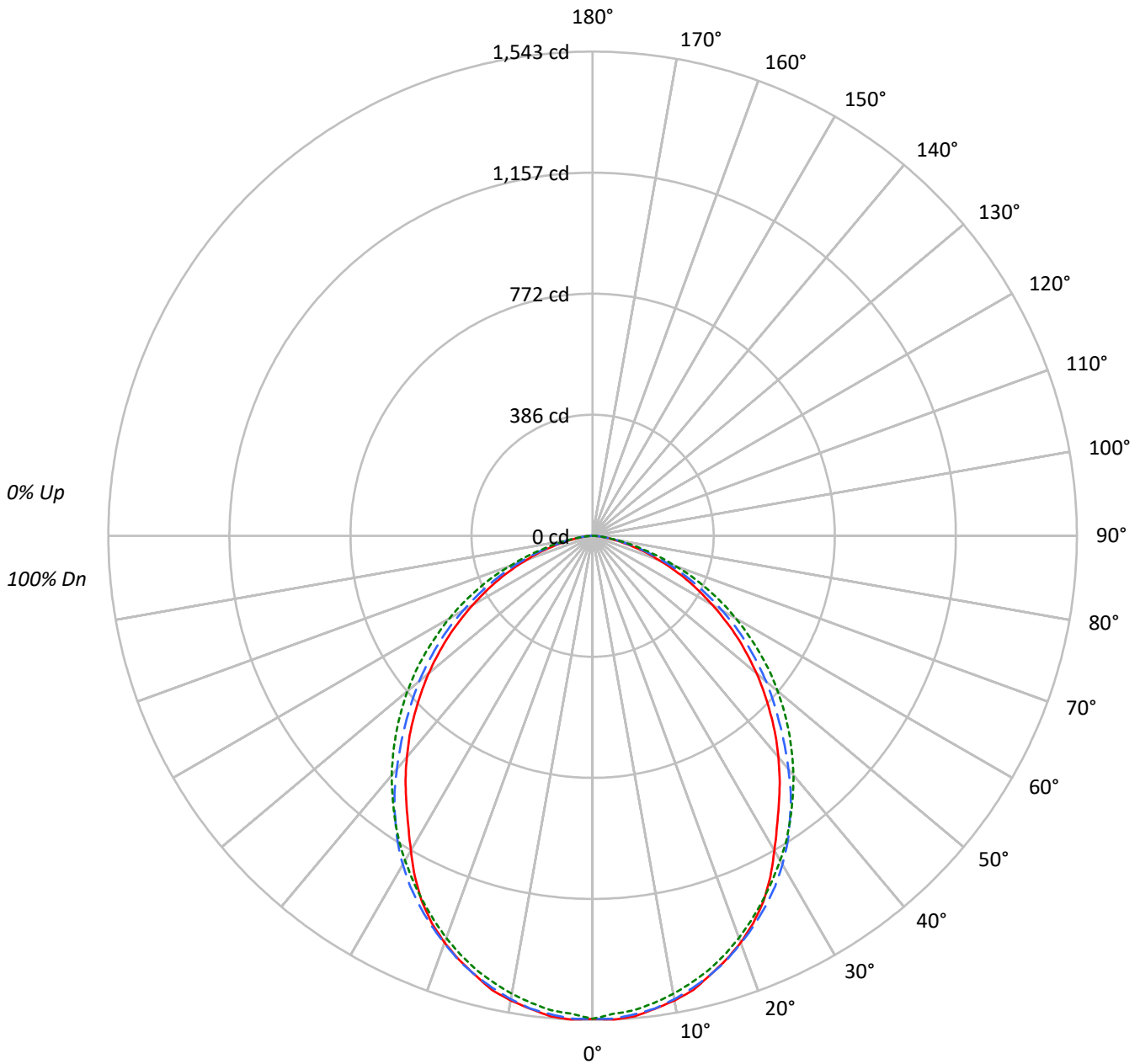
Lumens per Lamp: N/A
Luminaire Lumens: 3559.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8284	8284	8284
5°	8306	8271	8200
10°	8218	8195	8101
15°	8072	8072	7979
20°	7901	7911	7810
25°	7641	7736	7613
30°	7195	7518	7426
35°	6799	7207	7219
40°	6469	6817	6996
45°	6098	6404	6733
50°	5709	6035	6446
55°	5266	5615	6097
60°	4742	5124	5672
65°	4187	4555	5158
70°	3489	3880	4382
75°	2743	3098	3431
80°	1962	2182	2421
85°	1278	1278	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	4.1
10°-20°	407.1	11.4
20°-30°	594.9	16.7
30°-40°	675.3	19.0
40°-50°	651.9	18.3
50°-60°	537.8	15.1
60°-70°	358.1	10.1
70°-80°	160.3	4.5
80°-90°	28.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1147.0	32.2
0°-40°	1822.3	51.2
0°-60°	3012.0	84.6
0°-90°	3559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1537	1537	1531	1523	1518	146
15°	1449	1452	1449	1442	1432	408
25°	1287	1297	1303	1293	1282	589
35°	1035	1049	1097	1103	1099	648
45°	801	815	841	880	885	618
55°	561	571	598	632	650	501
65°	329	338	358	383	405	326
75°	132	139	149	156	165	144
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1543.3	1543.9	1540.4	1530.9	1525.0
5°	1537.4	1536.8	1530.9	1522.6	1517.9
7.5°	1520.3	1521.4	1519.7	1507.8	1501.3
10°	1503.7	1504.3	1499.6	1490.1	1482.4
12.5°	1482.4	1481.8	1475.3	1470.6	1458.2
15°	1448.7	1452.3	1448.7	1442.2	1432.1
17.5°	1416.2	1416.2	1418.5	1407.3	1399.6
20°	1379.5	1381.3	1381.3	1372.4	1363.6
22.5°	1336.9	1342.3	1344.0	1334.6	1323.9
25°	1286.7	1296.7	1302.7	1293.2	1282.0
27.5°	1225.8	1241.2	1258.9	1251.8	1239.4
30°	1157.8	1180.3	1209.8	1203.9	1195.0
32.5°	1093.3	1115.8	1156.6	1154.2	1149.5
35°	1034.8	1049.0	1096.9	1102.8	1098.7
37.5°	979.2	992.2	1037.2	1050.8	1047.2
40°	920.7	934.9	970.3	994.6	995.8
42.5°	862.7	876.3	905.3	940.2	940.2
45°	801.2	814.8	841.4	879.9	884.6
47.5°	740.9	755.1	781.1	819.6	827.2
50°	681.8	694.8	720.8	758.1	769.9
52.5°	620.3	634.5	659.9	694.2	711.3
55°	561.2	570.6	598.4	631.5	649.8
57.5°	499.7	508.5	539.9	568.2	587.2
60°	440.5	451.8	476.0	505.0	526.9
62.5°	383.8	395.6	416.3	441.7	466.5
65°	328.8	337.6	357.7	383.2	405.0
67.5°	275.5	283.2	303.3	321.1	344.1
70°	221.7	231.8	246.6	263.7	278.5
72.5°	178.6	182.7	195.1	207.5	222.9
75°	131.9	139.0	149.0	156.1	165.0
77.5°	94.6	98.7	104.7	110.6	118.9
80°	63.3	65.0	70.4	71.5	78.1
82.5°	38.4	39.6	40.8	41.4	43.8
85°	20.7	20.7	20.7	19.5	19.5
87.5°	11.8	11.8	10.1	8.3	5.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)